Case 364: Narrative

Case Vehicle (A): 1998 Ford

Type: Windstar GL, 4 x 2, minivan

Driver: 44-year-old female

CDC: 12-FREE-9, 12-FLEE-9

SITUATION

1 It was dark, the weather was clear, and the asphalt road surface was dry and in good condition 2 when case vehicle (A) was traveling east at a driver estimated-speed of 50 mph (80 kph) in the left eastbound lane of a multi-lane asphalt freeway, and unknown vehicle (X) was traveling east at an unknown speed in the right eastbound lane. As the two vehicles approached an exit ramp, the driver of vehicle (X) braked as the driver of case vehicle (A) attempted to move into the right eastbound lane prior to exiting the highway. In response to the braking of vehicle (X), the driver of case vehicle (A) also braked, causing her to lose control of the vehicle. Case vehicle (A) exited the road to the right and struck the guardrail with the right front and right side. 3 It then veered to the left, crossed over both eastbound travel lanes, exited the road to the left, and struck the concrete median barrier with the left front and left side. Case vehicle (A) was towed from the scene. The police accident report indicates B-level injuries for the driver of case vehicle (A) who was transported by ambulance to a level-one trauma center and hospitalized for 24 days.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

4 Damage to case vehicle (A) was moderate. 5 Direct damage from the frontal impact to the right front began at the right-front bumper corner and extended 14-cm to the left, resulting in 15-percent vehicle overlap (VOL). 6 The maximum crush on the frontal plane was 16 cm and occurred at the right-front bumper corner. The damage extended along the right side to the right-rear bumper corner. 7 Direct damage from the frontal impact to the left front began at the left-front bumper corner and extended 30-cm to the right, resulting in 24-percent vehicle overlap (VOL). The maximum crush on the frontal plane was 11 cm and occurred at the left-front bumper corner. The damage extended rearward along the left side to the left-rear bumper corner.

Using the WinSMASH crash-reconstruction program and <u>8</u> <u>9</u> two crush values measured at the right front of case vehicle (A), the following impact severity was estimated for the frontal impact with the guardrail:

		Calculated Velocity Change - kph (mph)			
Vehicle	Variable	Total	Longitudinal	Latitudinal	
Case Vehicle (A)	EBS	14 (9)	-14 (-9)	0 (0)	

Using the WinSMASH crash-reconstruction program and 89 two crush values measured at the right front of case vehicle (A), the following impact severity was estimated for the frontal impact with the median barrier:

		Calculated Velocity Change - kph (mph)			
Vehicle	Variable	Total	Longitudinal	Latitudinal	
Case Vehicle (A)	EBS	19 (12)	-19 (-12)	0 (0)	

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

In the front, 10 the left-front bumper corner was shifted 39-cm to the right and the right-front bumper corner was shifted 13-cm to the right. 11 The bumper and engine compartment were crushed rearward and to the right. The left-front corner of the hood was slightly deformed, the hood latch was damaged and jammed closed but it had been pried open, 12 and the left hood hinge was separated but there was no damage to the right hood hinge. The rear edge of the hood was not elevated and it did not contact the windshield. 13 The left side of the windshield was cracked due to deformation of the lower section of the left A-pillar and roof. 14 The lower-right side of the windshield was cracked, probably from contact by the deploying dash-mounted airbag.

- 15 On the left side, the front portion of the left fender, the lower section of the left A-pillar, the front portion of the left door, 16 17 the left quarter panel, and the lower section of the left D-pillar were crushed to the right. 18 19 Both left-side wheels were scratched and scraped, the sidewalls of the left-side tires were holed, and the tires were deflated.

 20 The left-front door was jammed closed and the left side of the roof was buckled, but all the left-side glazing was intact. 7 The left wheelbase was reduced by 13 cm.
- 21 The left taillight assembly was broken, and the lower-left corner of the left-rear door was deformed and jammed closed. 22 There was no other damage to the rear of the case vehicle.
- 23 24 On the right side, the fender was crushed and deflected to the left and the hubcap and rim of the right-front wheel were scuffed. 25 Both right-side doors remained closed and operational, and the right-side glazing was intact. Both right-side doors and the quarter panel were scratched and scraped, and the hubcap of the right-rear wheel was separated. 6 The right wheelbase was increased by 4 cm.

Interior

This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags, and 26 27 28 29 both deployed, probably during the frontal impact into the guardrail. 30 There was no damage to the steering-wheel airbag, but the fabric was stained with a few drops of blood and there was dirt across the upper face of the airbag. 31 32 33 34 There was no damage to the flaps/covers of the steering-wheel airbag. 35 There was no damage to the steering-wheel rim or spokes, but the steering column was deflected to the left. 37 The upper portion of the interior panel of the driver door was bowed out, 56 the plastic on the lower-front portion of the door interior was deflected in, and the plastic of the footwell panel was cracked. 38 The driver seat cushion was stained with blood and 39 the left-rear edge of the cushion was torn. The driver-seat fore/aft adjuster was jammed in the full-rear seat-track position. 40 There was a scuffmark, blood, and hair on the upper section of the left A-pillar. 41 42 There was no other damage to the driver area.

43 44 In the center-front area, the vertical console was dislodged from the center instrument stack and the cup holder was broken. 45 46 The windshield-mounted rearview mirror and 47 48 the roof-mounted console were also separated from their mounts. 49 There was no other damage in the center-front area.

50 In the right-front seating area, the dash-mounted airbag deployed but there was no damage to the module cover. 51 The windshield was cracked, probably from contact by the deploying dash-mounted airbag. 52 There was no other damage in the right-front seating area.

53 In the second-row seating area, the plastic on the left interior side panel and armrest was cracked and broken and some of the hardware was loose.

The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
	toepan <u>54</u> <u>55</u>	10	to rear
Driver	floor	5	up
	footwell panel	3	to right

OCCUPANT KINEMATICS AND INJURIES

56 The 5-ft, 11-in, 250-lb, 44-year-old female driver was not using the three-point belt, 57 but the steering-wheel airbag deployed, probably during the impact into the guardrail. 58 59 There were no witness marks on the plastic D-ring or on the belt webbing to indicate belt use at the time of the crash. The driver had reportedly adjusted the seat to the full-rear seat-track position with the seatback relatively upright, and had positioned her right and left hands on the steering-wheel rim at two and ten o'clock, respectively. She was wearing glasses at the time of the crash and they were reportedly knocked off of her face.

On impact of the right front of the vehicle into the guardrail, the driver moved forward into the deploying airbag and knee bolster. She sustained contusions around the right eye and to the right side of the face, probably due to contact of the deploying airbag with her face and eyeglasses. During impact of the left front with the concrete median barrier, she moved further forward and to the left and her head contacted the upper section of the left A-pillar, 40 as evidenced by a scuffmark and hair deposit, resulting in a contusion to the top of the head. She sustained an open fracture/dislocation to the left talus, tears of the left anterior and posterior talofibular ligaments, and a tear to the left calcaneofibular ligament, probably due to contact of the left foot with the toepan and the side panel of the footwell, 37 as indicated by the blood deposit and cracked plastic. She sustained a strain to the posterior aspect of the left shoulder from an unknown source. The following table and attached drawing 60 summarize the injuries sustained by the driver of case vehicle (A).

Occupant: Driver	Age: 44 ye	Age: 44 years Gender: Female		>
Restraints: Steering-wheel airbag	Stature: 18 11 in)	Stature: 180 cm (5 ft, 11 in) Mass: 113 kg (250		250 lb)
Injury Description	A.I.S.	Injury Source		
_	_	Definite	Probable	Possible
Contusion, top of head	1		Left A-pillar	_
Contusions, around right eye	1		Airbag/eyeglasses	_
Contusion, right side of face	1		Airbag/eyeglasses	
Strain, posterior aspect of the left shoulder	1	Unknown		
Open fracture/dislocation, left talus	2	_	Toepan; side panel of footwell	
Tears of the left anterior and posterior talofibular, and calcaneofibular ligaments	2	_	Toepan; side panel of footwell	
Maximum A.I.S. Level	2		_	
Injury Severity Score	5			

CASE NO.: 364-03

CASE VEHICLE: 1998 Ford

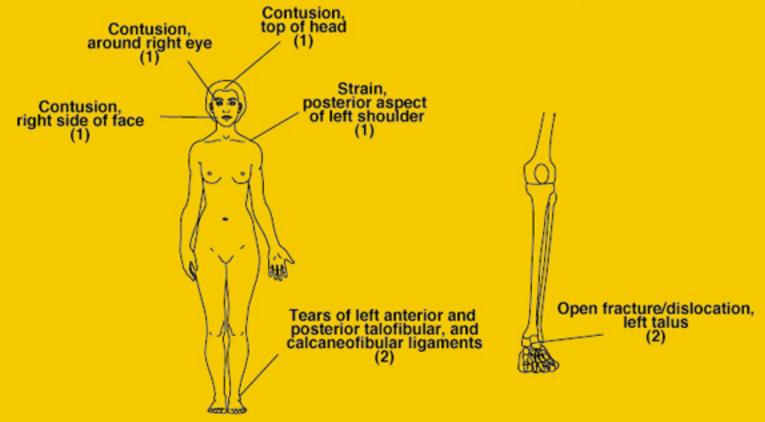
TYPE: Windstar GL, 4 x 2, minivan

OCCUPANT: Driver: 44-year-old female

STATURE: 180 cm (5 ft, 11 in) MASS: 113 kg (250 lb)

RESTRAINTS: Steering-wheel airbag

SEVERITY: MAIS - 2 : ISS - 5



Case No.: 364-03

Case Veh. (A): 1998 Ford

Type: Windstar GL, 4 x 2, minivan

Driver: 44-year-old female

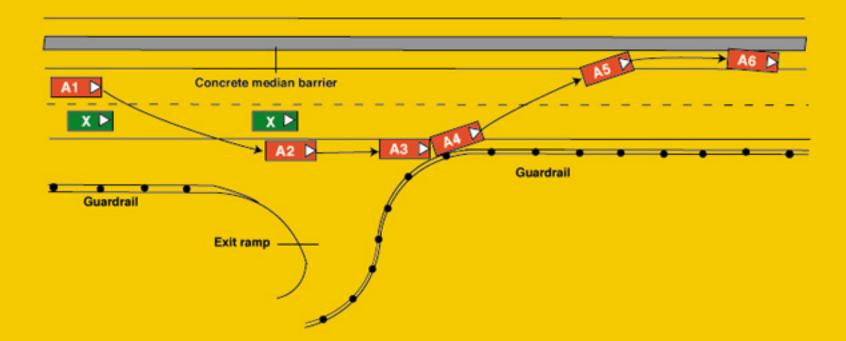
Light Conditions: Dark- unlighted

Weather: Clear Road Surface: Dry

Road Construction: Asphalt



Speed Limit 55 mph (89 kph)



Vehicle Report

General

Conditions

Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	1	Urban	more
V207 — Limited Access Highway	1	Yes	more
V208 — Road Total Lanes	5	Divided, 4 lanes or more	more
V209 — Intersecting Road Total Lanes	1	1 lane	more
V210 — Road Surface Type	1	Asphalt	more
V211 — Road Defects	0	No	more
V212 — Construction Zone	0	No	more
V213 — Road Alignment Vertical Plane	1	Level	more
V214 — Road Alignment Horizontal Plane	1	Straight	more
V215 — Surface Covering	10	Dry	more
V216 — Visibility Limitation	0	None	more
V217 — Visibility Obstruction	0	None	more
V218 — Speed Limit	6	86-90 km/h 55 mph	more
V219 — Precipitation Type	0	None	more
V220 — Precipitation Rate	8	Not applicable	more
V221 — Temperature	9	Unknown	more
V222 — Crosswind	9	Unknown	more
V223 — Light Conditions	5	Dark, unlighted	more
V224 — Mechanical Malfunction Mention	0	No	more
V225 — Case Vehicle and Object	1	Yes	more

V226 — Case Vehicle Rollover	0	No	more
V227 — Case Vehicle Ran Off Roadway	1	Yes	<u>more</u>
V228 — Moving Case Vehicle/Contacted Moving Vehicle	0	No	more
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	more
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	<u>more</u>
V231 — Total Vehicles Hit By Case Vehicle	0	0 vehicles	more
V232 — Any Fire in Crash	0	No	more
V233 — Max Police Severity-PAR	2	B - Non-Incapacitating Injury	more
V234 — Driver Alcohol Involvement	0	Had not been drinking	more
V235 — Driver Alcohol BAC	80	Not tested	more
V236 — Driver Impairment Mention	0	No	more
V237 — Driven/Towed From Scene	2	Towed Due to Damage	more

Other Vehicle

Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	none	_	_
V302 — Other Vehicle Manufacturer/Body Code	99898	_	
V303 — Other Vehicle Manufacturer	998	No Other Vehicle	more
V304 — Other Vehicle Body Code	98	No Other Vehicle	more
V305 — Other Vehicle Make/Model	0000	No other vehicle	more
V306 — Other Vehicle Model Year	9999	No other vehicle	more
V307 — Other Vehicle Mass	999998	No other vehicle	more
V308 — Other Vehicle Number	8	No other vehicle	more
V309 — Other Vehicle Number of Occupants	98	No other vehicle	more
V310 — Other Vehicle Traveling Speed	999	Unknown	more
V311 — Highest Police Injury Severity	8	Unoccupied Vehicle	more
V312 — Other Vehicle Type	98	No Other Vehicle	more
V313 — Other Vehicle Wheelbase (cm)	998	No other vehicle	more
V314 — Average Track Width	999	Unknown	more
V315 — Overall Length	999	Unknown	more
V316 — Overall Width (OAW)	999	Unknown	more
V317 — Front Overhang (FOH)	999	Unknown	more
V318 — Rear Overhang (ROH)	999	Unknown	more
V319 — Undeformed End Width (UEW)	999	Unknown	more
V320 — Engine Displacement	9.9 <i>l</i>	_	_
V321 — Engine: Number of Cylinders	99	Unknown	more
V322 — Direct Damage Length (DDL)	999	Unknown	more

V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	more
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	more

General

Variable Number	O. J. Walas	Code	Other
Variable Number and Name	Code Value	Description	Options
V401 — VIN	2FMZA5142WBD	_	_
V402 — Manufacturer/Body Code	22111		_
V403 — Vehicle Manufacturer	221	Ford/Canada	more
V404 — Vehicle Body Code	11		
V405 — Make/Model Code	3133	Windstar	more
V406 — Model Year	1998	_	_
V407 — Vehicle Mass	001706 kg		_
V408 — Odometer Reading	174036 miles		_
V409 — Number of Occupants	01		_
V410 — Traveling Speed	080 kph	_	_
V411 — Body Type	24	Van (small)	more
V412 — Stolen Vehicle	8	Not currently collected	more
V413 — Body Structure	2	Unitized	more
V414 — Transmission Type	1	Automatic	more
V415 — Transmission Lever Location	3	Column	more
V416 — Steering	1	Power	more
V417 — Brakes	1	Power	more
V418 — Brake Type	2	Disc - front wheels	more
V419 — Brake Anti-lock Device	2	Four-wheel	more
V420 — Air Conditioning in Vehicle	8	Not currently collected	more
V421 — Drive Type	2	Front wheel	more
V422 — Dual Rear Wheels	0	No	more
V423 — Original Restraint System	3	Airbag	more

Туре			
V424 — Equipped With Roll Bar	0	No	more
V425 — Roof Type	1	Solid	more
V426 — Wheelbase	307 cm	_	
V427 — Anti-lacerative Glass	0	None	more
V428 — Average Track Width	162 cm	_	_
V429 — Overall Length	511 cm	_	_
V430 — Overall Width (OAW)	190 cm	_	
V431 — Front Overhang	102 cm	_	
V432 — Rear Overhang	102 cm	_	
V433 — Undeformed End Width (UEW)	160 cm		
V434 — Engine Displacement	3.0 <i>l</i>	_	
V435 — Engine: Number of Cylinders	06		
V436 — Direct Damage Length (DDL)	030 cm	_	
V437 — Front End Overlap % (FEO)	19	_	
V438 — Vehicle Overlap % (VOL)	24	_	

Damage

Description

Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	016 cm	_	
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	more
V503 — Maximum Crush - Rear	000 cm	No crush (or less than 1 cm.)	more
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	<u>more</u>
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	more
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	more
V507 — Are Events In Chronological Order	1	Yes	more
V508 — Event 1 Impact Location	2	Shoulder/Median/Gore	more
V509 — Event 1 Impact Configuration	17	FRONT of case veh - object	more
V510 — Event 1 Object/Vehicle Contacted	91	Guard rail, middle section	more
V511 — Event 2 Impact Location	2	Shoulder/Median/Gore	more
V512 — Event 2 Impact Configuration	17	FRONT of case veh - object	more
V513 — Event 2 Object/Vehicle Contacted	95	Concrete barrier (median)	more
V514 — Event 3 Impact Location	8	No 3rd event	more
V515 — Event 3 Impact Configuration	88	No 3rd event	more
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V517 — Event 4 Impact Location	8	No 4th event	more
V518 — Event 4 Impact	88	No 4th event	more

Configuration			
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	<u>more</u>
V520 — Event 5 Impact Location	8	No 5th event	more
V521 — Event 5 Impact Configuration	88	No 5th event	<u>more</u>
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	<u>more</u>
V523 — Event 6 Impact Location	8	No 6th event	more
V524 — Event 6 Impact Configuration	88	No 6th event	<u>more</u>
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	<u>more</u>
V526 — Event 7 Impact On Road	8	No 7th event	more
V527 — Event 7 Impact Configuration	88	No 7th event	more
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V529 — Primary CDC Case Vehicle -event Number	2	Event 2	<u>more</u>
V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	<u>more</u>
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	<u>more</u>
V532 — Primary CDC Case Vehicle -crush	011	_	
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	more
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	more
V535 — Primary CDC Case Vehicle letter 2 #1	12	L - Left (Front or Rear)	<u>more</u>
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	<u>more</u>
V537 — Primary CDC Case Vehicle letter 4 #1	05	E - Corner (extends from corner to = or < 16 in [410mm])	more
V538 — Primary CDC Case Vehicle Extent #1	09	Extent 9	more

V539 — Primary CDC Case Vehicle -CDC #1	12FLEE9	_	_
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V546 — Primary CDC Case Vehicle -CDC #2	9800000	_	
V547 — Primary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	more
V548 — Primary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	more
V549 — Primary CDC Contacted Vehicle -crush	998	Not Applicable	more
V550 — Primary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V552 — Primary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V556 — Primary CDC Contacted Vehicle -CDC #1	9800000	_	
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more

V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V563 — Primary CDC Contacted Vehicle -CDC #2	9800000	_	_
V564 — Secondary CDC Case Vehicle - Event No	1	Event 1	more
V565 — Secondary CDC Case Vehicle - Impact Speed	999	Unknown	more
V566 — Secondary CDC Case Vehicle - Estimated By	1	_	_
V567 — Secondary CDC Case Vehicle -crush	016	_	_
V568 — Secondary CDC Case Vehicle -clock #1	12	12 o'clock	more
V569 — Secondary CDC Case Vehicle letter 1 #1	06	F - Front	more
V570 — Secondary CDC Case Vehicle letter 2 #1	18	R - Right (Front or Rear)	more
V571 — Secondary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	more
V572 — Secondary CDC Case Vehicle letter 4 #1	05	E - Corner (extends from corner to = or < 16 in [410mm])	more
V573 — Secondary CDC Case Vehicle Extent #1	09	Extent 9	more
V574 — Secondary CDC Case Vehicle -CDC #1	12FREE9	_	_
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V581 — Secondary CDC Case	9800000		

Vehicle -CDC #2			
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	more
V583 — Secondary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	more
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	more
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	_	_
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V598 — Secondary CDC Contacted Vehicle -CDC #2	9800000	_	

Crash Severity

Variable Number and Name	Code	Code	Other
Variable Number and Name	Value	Description	Options
V601 — Case Vehicle Primary Impact Number	2	_	_
V602 — Primary Impact Total Delta-V	019 kph		
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-019 kph	_	_
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	0000 kph	_	_
V605 — Primary Case Vehicle Reconstructed Crush Energy	0028 kJ	_	_
V606 — Primary Impact Case Vehicle - reconstuction	21	Reconstructed, low confidence level	more
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	more
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	_	_
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta-V	8888	_	_
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	8888	_	_
V612 — Case Vehicle Secondary Impact Number	1	_	_
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	014 kph	_	_
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	-014 kph	_	
V615 — Secondary Case Vehicle Reconstructed Lateral Delta-V	0000 kph		_
V616 — Secondary Case Vehicle Reconstructed Crush Energy	0017 kJ		_
V617 — Secondary Case Vehicle Reconstruction Note	21	Reconstructed, low confidence level	more

V618 — Secondary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	more
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	_	
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V	8888	_	_
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	_	_
V623 — Case Vehicle Primary Impact Number	2	_	_
V624 — Primary Case Vehicle Reconstructed Total EBS	019 kph	_	
V625 — Primary Case Vehicle Reconstructed Longitudinal EBS	-019 kph	_	
V626 — Primary Case Vehicle Reconstructed Lateral EBS	0000 kph	_	_
V627 — Primary Case Vehicle Reconstructed Crush Energy	0028 kJ	_	
V628 — Primary Case Vehicle Reconstruction Note	21	Reconstructed, low confidence level	more
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	<u>more</u>
V630 — Primary Contacted Vehicle Reconstruction Total EBS	888	N/A	<u>more</u>
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	8888	_	_
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	8888	_	_
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	8888	_	_
V634 — Case Vehicle Secondary Impact Number	1	_	_
V635 — Secondary Case Vehicle Reconstruction Total EBS	014 kph	_	_
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	-014 kph	_	
V637 — Secondary Case Vehicle	0000 kph	_	_

Reconstruction Lateral EBS			
V638 — Secondary Case Vehicle Reconstruction Crush Energy	0017 kJ	_	_
V639 — Secondary Case Vehicle Reconstruction Note	21	Reconstructed, low confidence level	more
V640 — Secondary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	more
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS	8888	_	_
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	_	_
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	_	_
V645 — Case Vehicle Reconstructed Impact Number	1	_	_
V646 — Case Vehicle Impact 1 Plane	1	Bumper	more
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	014 cm	_	
V648 — Case Vehicle Impact 1 Max Crush	016 cm	_	
V649 — Case Vehicle Impact 1 Field-L	132 cm	_	_
V650 — Case Vehicle Impact 1 C1	000 cm	No Crush	more
V651 — Case Vehicle Impact 1 C2	000 cm	No Crush	more
V652 — Case Vehicle Impact 1 C3	000 cm	No Crush	more
V653 — Case Vehicle Impact 1 C4	000 cm	No Crush	more
V654 — Case Vehicle Impact 1 C5	009 cm	_	_
V655 — Case Vehicle Impact 1 C6	016 cm	_	
V656 — Case Vehicle Impact 1 +/- D	-066 cm	_	
V657 — Case Vehicle Reconstructed Impact Number	2	_	_
V658 — Case Vehicle Impact 2 Plane	1	Bumper	more
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	030 cm	_	_

V660 — Case Vehicle Impact 2 Max Crush	011 cm		_
V661 — Case Vehicle Impact 2 Field-L	132 cm	_	_
V662 — Case Vehicle Impact 2 C1	011 cm	_	_
V663 — Case Vehicle Impact 2 C2	010 cm	_	
V664 — Case Vehicle Impact 2 C3	010 cm	_	_
V665 — Case Vehicle Impact 2 C4	010 cm	_	
V666 — Case Vehicle Impact 2 C5	009 cm	_	_
V667 — Case Vehicle Impact 2 C6	000 cm	No Crush	more
V668 — Case Vehicle Impact 2 +/- D	-050 cm	_	
V669 — Other Vehicle Reconstructed Impact Number	9	Unknown	more
V670 — Other Vehicle Impact 1 Plane	9	Unknown	more
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	999	Unknown	more
V672 — Other Vehicle Impact 1 Max Crush	999	Unknown	more
V673 — Other Vehicle Impact 1 Field-L	999	Unknown	more
V674 — Other Vehicle Impact 1 C1	999	Unknown	more
V675 — Other Vehicle Impact 1 C2	999	Unknown	more
V676 — Other Vehicle Impact 1 C3	999	Unknown	more
V677 — Other Vehicle Impact 1 C4	999	Unknown	more
V678 — Other Vehicle Impact 1 C5	999	Unknown	more
V679 — Other Vehicle Impact 1 C6	999	Unknown	more
V680 — Other Vehicle Impact 1 +/- D	9999	_	
V681 — Other Vehicle Reconstructed Impact Number	9	Unknown	more
V682 — Other Vehicle Impact 2 Plane	9	Unknown	more
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	999	Unknown	more
V684 — Other Vehicle Impact 2 Max Crush	999	Unknown	more
V685 — Other Vehicle Impact 2 Field-L	999	Unknown	more
V686 — Other Vehicle Impact 2 C1	999	Unknown	more

V687 — Other Vehicle Impact 2 C2	999	Unknown	more
V688 — Other Vehicle Impact 2 C3	999	Unknown	more
V689 — Other Vehicle Impact 2 C4	999	Unknown	more
V690 — Other Vehicle Impact 2 C5	999	Unknown	more
V691 — Other Vehicle Impact 2 C6	999	Unknown	more
V692 — Other Vehicle Impact 2 +/- D	9999	_	

Tires & Rims

Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	1	Yes	more
V702 — Right Front Wheel Damaged	1	Yes	more
V703 — Right Rear Wheel Damaged	0	No	more
V704 — Left Rear Wheel Damaged	1	Yes	more
V705 — Left Front Tire Tread Type	4	All Weather	more
V706 — Right Front Tire Tread Type	4	All Weather	more
V707 — Right Rear Tire Tread Type	4	All Weather	more
V708 — Left Rear Tire Tread Type	4	All Weather	more
V709 — Left Front Carcass Construction	3	Radial	more
V710 — Right Front Carcass Construction	3	Radial	more
V711 — Right Rear Carcass Construction	3	Radial	more
V712 — Left Rear Carcass Construction	3	Radial	more
V717 — Left Front Tire Size	P21570R15	_	_
V718 — Right Front Tire Size	P21570R15	_	_
V719 — Right Rear Tire Size	P21570R15	_	_
V720 — Left Rear Tire Size	P21570R15	_	

Case Vehicle Fuel, Tank, Fire

Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	more
V802 — Main Tank Location	322	Within frame/centered laterally - within vertically	<u>more</u>
V803 — Main Filler Cap Location	313	Left of frame laterally - above vertically	more
V804 — Main Tank Material	3	Plastic	more
V805 — Aux Tank Type	8	Not applicable (not equipped)	more
V806 — Aux Tank Location	888	Not applicable (not equipped)	<u>more</u>
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	more
V808 — Aux Tank Material	8	Not applicable	more
V901 — Fuel Leakage From Crash	0	No	more
V1001 — Fire In Or On Case Vehicle	0	No	more

Exterior

Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	0	No	more
V1102 — Hood Latch Damaged	1	Yes	more
V1103 — Hood Latch Jammed	1	Yes	more
V1104 — Left Hood Hinge Damaged	1	Yes	more
V1105 — Left Hood Hinge Separated	1	Yes	more
V1106 — Right Hood Hinge Damaged	0	No	more
V1107 — Right Hood Hinge Separated	8	Not applicable	more
V1108 — Hood Remained On Vehicle	1	Yes	more
V1109 — Rear Hood Edge Elevated	0	No	more
V1110 — Edge Contacted Windshield	0	No	more
V1111 — Edge Penetrated Windshield	8	Not applicable	more
V1112 — Hood Latch Location	1	Front of Vehicle	more
V1113 — Eng/Transmissn Mount Separation	0	No	more
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Steerng Column Coupling Damaged	9	Unknown	more
V1116 — Steerng Column Coupling Separated	9	Unknown	more
V1117 — Eng Comp Telescopng Unit	88	Not collected	more
V1118 — Comp Orig/Telescopd Diff	888	Not collected	more

V1119 — Left Side Body Mount Separation	8	Not applicable (unitized)	more
V1120 — Upper Left A-pillar Separation	0	No	more
V1121 — Lower Left A-pillar Separation	4	No separation, but damaged	<u>more</u>
V1122 — Upper Left B-pillar Separation	0	No	<u>more</u>
V1123 — Lower Left B-pillar Separation	0	No	more
V1124 — Upper Left C-pillar Separation	8	Not applicable (not equipped)	<u>more</u>
V1125 — Lower Left C-pillar Separation	8	Not applicable (not equipped)	more
V1126 — Upper Left D-pillar Separation	0	No	more
V1127 — Lower Left D-pillar Separation	4	No separation, but damaged	<u>more</u>
V1128 — Left Front Door Opening Cause	0	Door did not open	more
V1129 — Left Rear Door Opening Cause	8	Not applicable (no left rear door)	<u>more</u>
V1130 — Left Front Door Jammed Closed	1	Yes	more
V1131 — Left Rear Door Jammed Closed	8	Not applicable (no left rear door)	more
V1132 — Rear Door Type	2	One-way tailgate	more
V1133 — Rear Door Opening Cause	0	Door did not open	more
V1134 — Rear Door Jammed Closed	1	Yes	more
V1135 — Luggage Partition Damagd	8	Not applicable	<u>more</u>
V1136 — Spare Tire Status	8	Not collected	more
V1137 — Trailer Hitch Type	0	No hitch	more
V1138 — Trailer Type	0	No trailer	more
V1139 — Right Side Body Mount Separation	8	Not applicable (unitized)	more

V1140 — Upper Right A-pillar Separation	0	No	more
V1141 — Lower Right A-pillar Separation	4	No separation, but damaged	more
V1142 — Upper Right B-pillar Separation	0	No	<u>more</u>
V1143 — Lower Right B-pillar Separation	0	No	<u>more</u>
V1144 — Upper Right C-pillar Separation	0	No	<u>more</u>
V1145 — Lower Right C-pillar Separation	0	No	<u>more</u>
V1146 — Upper Right D-pillar Separation	0	No	<u>more</u>
V1147 — Lower Right D-pillar Separation	0	No	<u>more</u>
V1148 — Right Front Door Opening Cause	00	Door did not open	<u>more</u>
V1149 — Right Rear Door Opening Cause	00	Door did not open	<u>more</u>
V1150 — Right Front Door Jammed Closed	0	No	<u>more</u>
V1151 — Right Rear Door Jammed Closed	0	No	more
V1152 — Van Rear Door Type	1	Track (sliding)-right side	<u>more</u>
V1153 — Windshield Cracked		Yes	<u>more</u>
V1154 — Windshield Broken	0	No	<u>more</u>
V1155 — Windshield Cracked or Broken by Occupant	0	No	more
V1156 — Bond Separation Extent	0	None	<u>more</u>
V1157 — Windshield Code		_	_
V1158 — Did Sun/T Roof Open	8	Not Applicable	<u>more</u>

Steering

Column/Rim

Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	0	None	more
V1202 — Number of Steering Wheel Spokes	4	4 spokes	<u>more</u>
V1203 — Steering Wheel Spoke Damage	0	None	more
V1204 — Column Tilt Feature	3	Middle	more
V1205 — Column Swing-away Feature	0	Not equipped	more
V1206 — Column Telescoping Feature	0	Not equipped	more
V1207 — Wheel Energy Absorb Device	8	Not collected	more
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	more
V1209 — Column Energy Absorb Device	88	Not collected	more
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	more
V1211 — Shear Capsule Separation	888	Not collected	more
V1212 — Column Vertical Rotation	0	No apparent rotation	more
V1213 — Column Lateral Rotation	1	Left apparent rotation	more
V1214 — Steering Wheel Hub Damage	0	None	more

Intrusion

Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	1	Yes	more
V1302 — Was Intrusion Catastrophic	0	No	more
V1303 — Intrusion Number 01	01	Intrusion #1	more
V1304 — Intrusion 01 Occupant Space Number	11	First row, Left seat	more
V1305 — Intrusion 01 Intruding Object	03	Toe pan	more
V1306 — Intrusion 01 Assoc Event Number	2	Event #2	more
V1307 — Intrusion 01 Max Intrusion X-axis	10 cm	_	
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1310 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1313 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1314 — Intrusion Number 02	02	Intrusion #2	more
V1315 — Intrusion 02 Occupant Space Number	11	First row, Left seat	more
V1316 — Intrusion 02 Intruding Object	04	Floor pan	more
V1317 — Intrusion 02 Assoc Event Number	2	Event #2	more

V1318 — Intrusion 02 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1320 — Intrusion 02 Max Intrusion Z-axis	05 cm	_	_
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<u>more</u>
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	<u>more</u>
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1325 — Intrusion Number 03	03	Intrusion #3	more
V1326 — Intrusion 03 Occupant Space Number	11	First row, Left seat	more
V1327 — Intrusion 03 Intruding Object	29	Side footwell panel (kickpanel)	more
V1328 — Intrusion 03 Assoc Event Number	2	Event #2	<u>more</u>
V1329 — Intrusion 03 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1330 — Intrusion 03 Max Intrusion Y-axis	03 cm	_	_
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1332 — Intrusion 03 Occupant Number	01	Occupant number 1, contact	more
V1333 — Intrusion 03 Injury Number	05	Injury #5	more
V1334 — Intrusion 03 Occupant Number	01	Occupant number 1, contact	more
V1335 — Intrusion 03 Injury Number	06	Injury #6	more
V1336 — Intrusion Number 04	00	No Intrusion, None	more
V1337 — Intrusion 04 Occupant Space Number	00	No Intrusion, None	more
V1338 — Intrusion 04 Intruding	00	No Intrusion, None	more

Object			
V1339 — Intrusion 04 Assoc Event Number	0	No Intrusion, None	<u>more</u>
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	<u>more</u>
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1346 — Intrusion 04 Injury Number	99	Contact, injury unknown or data not collected	more
V1347 — Intrusion Number 05	00	No Intrusion, None	more
V1348 — Intrusion 05 Occupant Space Number	00	No Intrusion, None	more
V1349 — Intrusion 05 Intruding Object	00	No Intrusion, None	more
V1350 — Intrusion 05 Assoc Event Number	0	No Intrusion, None	more
V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1357 — Intrusion 05 Injury Number	99	Contact, injury unknown or data not collected	more
V1358 — Intrusion Number 06	00	No Intrusion, None	more

V1359 — Intrusion 06 Occupant	00	No Intrusion, None	more
Space Number		No muusion, none	more
V1360 — Intrusion 06 Intruding Object	00	No Intrusion, None	more
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	<u>more</u>
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<u>more</u>
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	<u>more</u>
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<u>more</u>
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	<u>more</u>
V1369 — Intrusion Number 07	00	No Intrusion, None	more
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusio n, None	<u>more</u>
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	<u>more</u>
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	<u>more</u>
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	<u>more</u>
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	<u>more</u>
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more

V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	more
V1380 — Intrusion Number 08	00	No Intrusion, None	more
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	more
V1382 — Intrusion 08 Intruding Object	00	No Intrusion, None	<u>more</u>
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	<u>more</u>
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<u>more</u>
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	<u>more</u>
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<u>more</u>
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	<u>more</u>
V1391 — Intrusion Number 09	00	No Intrusion, None	more
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	<u>more</u>
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	<u>more</u>
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	<u>more</u>
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1399 — Intrusion 09 Injury	00	No injury or no intrusion	more

Number			
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	<u>more</u>
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	<u>more</u>
V1402 — Intrusion Number 10	00	No Intrusion, None	more
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	more
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	more
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	more
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	more
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	more
V1413 — Door Intrusion Number 01	88	Not Applicable	more
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	more
V1415 — Door Intrusion Number 02	88	Not Applicable	more
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	more
V1417 — Door Intrusion Number 03	88	Not Applicable	more
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	more
V1419 — Door Intrusion 01	88	Not Applicable	more

Component			
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	more
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	more
V1422 — Door Intrusion 02 Component	88	Not Applicable	more
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	more
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	more
V1425 — Door Intrusion 03 Component	88	Not Applicable	more
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	more
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	more
V1428 — Door Intrusion 04 Component	88	Not Applicable	more
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	more
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	more

Case Vehicle

Airbag(s)

Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	more
V1502 — Driver Airbag Deployed	1	Yes	more
V1503 — Driver Airbag Condition	0	No Damage	more
V1504 — Passenger Airbag Equip	1	Yes	more
V1505 — Passenger Airbag Deployed	1	Yes	more
V1506 — Passenger Airbag Condition	0	No Damage	more
V1507 — Steering Wheel Airbag Tether	1	Yes	more
V1508 — Driver Airbag Marked By Contact	1	Yes	more
V1509 — Passenger Airbag Tether	0	No	more
V1510 — Passenger Airbag Marked By Contact	0	No	more

Case Vehicle

Interior

Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	4	Yes, occupant contact	more
V1602 — Right Front Door Damaged	0	No	more
V1603 — Left Front Hardware Damaged	0	No	more
V1604 — Right Front Hardware Damaged	0	No	more
V1605 — Left Front Armrest Damaged	0	No	more
V1606 — Right Front Armrest Damaged	0	No	more
V1607 — Left Front Glass Damaged	0	No	more
V1608 — Right Front Glass Damaged	0	No	more
V1609 — Left Rear Door Area Damaged	1	Yes	more
V1610 — Right Rear Door Area Damaged	0	No	more
V1611 — Left Rear Hardware Damaged	1	Yes	more
V1612 — Right Rear Hardware Damaged	0	No	more
V1613 — Left Rear Armrest Damaged	1	Yes	more
V1614 — Right Rear Armrest Damaged	0	No	more
V1615 — Left Rear Glass Damaged	0	No	more
V1616 — Right Rear Glass Damaged	0	No	more
V1617 — Left Roof Side Rail Damaged	0	No	more
V1618 — Right Roof Side Rail Damaged	0	No	more
V1619 — Left B-pillar Damaged	0	No	more

V1620 — Right B-pillar Damaged	0	No	more
V1621 — Left C-pillar Damaged	8	Not applicable	more
V1622 — Right C-pillar Damaged	0	No	more
V1623 — Left D-pillar Damaged	0	No	more
V1624 — Right D-pillar Damaged	0	No	more
V1625 — Left Headlining Damaged	0	No	more
V1626 — Right Headlining Damaged	0	No	more
V1627 — Left Roof Structure Damaged	0	No	<u>more</u>
V1628 — Right Roof Structure Damaged	0	No	more
V1629 — Left T/Sun Roof Damaged	8	Not applicable	more
V1630 — Right T/Sun Roof Damaged	8	Not applicable	more
V1631 — Other Left Side Item Damagd	8	Not applicable	<u>more</u>
V1632 — Other Right Side Item Damagd	8	Not applicable	more
V1633 — Foot Controls Damaged	0	No	more
V1634 — Ignition Key Damaged	0	No	more
V1635 — Rear View Mirror Damaged	1	Yes	more
V1636 — Sunvisor/Fitting Damaged	0	No	more
V1637 — Windshield Molding Damaged	0	No	more
V1638 — Left A-pillar Damaged	4	Yes, occupant contact	more
V1639 — Right A-pillar Damaged	0	No	more
V1640 — Center Console Damaged	8	Not applicable	more
V1641 — Transmission Lever Damaged	0	No	more
V1642 — Horn/Spoke Shroud Damagd	4	Yes, occupant contact	more
V1643 — Upper Panel Damaged	0	No	<u>more</u>
V1644 — Mid Panel Damaged	0	No	more
V1645 — Lower Panel Damaged	0	No	more

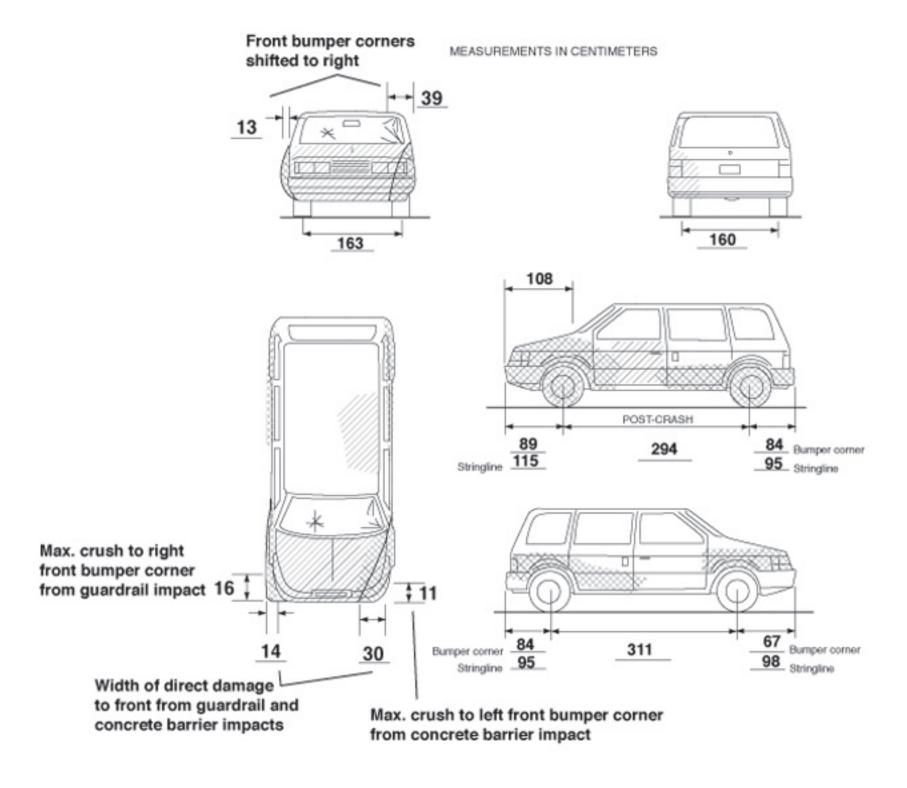
V1646 — Ashtray Damaged	0	No	more
V1647 — Control Knob/Lever Damaged	0	No	more
V1648 — Glove Compartment Area Damaged	0	No	more
V1649 — Instruments Damaged	0	No	<u>more</u>
V1650 — Park Brake Release Damaged	0	No	more
V1651 — Park Brake Pedal Damaged	8	Not applicable	more
V1652 — A/C Or Upper Vent Damaged	0	No	more
V1653 — Heater Or A/C Duct Damaged	0	No	more
V1654 — Radio Damaged	1	Yes	more
V1655 — Other Item Damaged	8	Not applicable	more
V1656 — Rear Window Damaged	0	No	more
V1657 — Rear Window Header Damaged	0	No	more
V1658 — Vertical Console Damaged	4	Yes, occupant contact	more
V1659 — Roof Console Damaged	1	Yes	more

Case Vehicle Seats

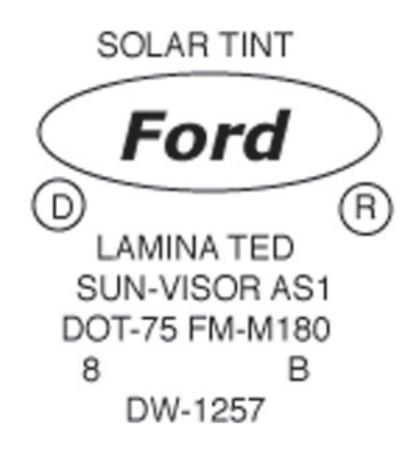
Variable Number and Name	Code Value	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	more
V1702 — Passenger Front Seat Type	05	Bucket	more
V1703 — Driver Seat Mount Type	2	Pedestal	more
V1704 — Passenger Seat Mount Type	2	Pedestal	more
V1705 — Driver Swivel Mechanism Equipped	0	No	more
V1706 — Passenger Swivel Mechanism Equipped	0	No	more
V1707 — Driver Seat Original Equipment	1	Yes	more
V1708 — Passenger Seat Original Equipment	1	Yes	more
V1709 — Driver Seat/Rear Occupant Contact	8	Not applicable	more
V1710 — Passenger Seat/Rear Occupant Contact	8	Not applicable	more
V1711 — Driver Seat Damage	2	Cushion only damaged	more
V1712 — Passenger Seat Damage	0	None	more
V1713 — Center Front Armrest Damaged	0	No	more
V1714 — Driver Seat Rotation	3	Left apparent	more
V1715 — Passenger Seat Rotation	0	None apparent	more
V1716 — Driver Seat-back Type	3	Reclining	more
V1717 — Passenger Seat-back Type	3	Reclining	more
V1718 — Driver Seat-back Lock Type	1	Manual	more
V1719 — Passenger Seat-back Lock Type	1	Manual	more
V1720 — Driver Seat-back Lock Held	1	Yes	more

V1721 — Passenger Seat-back Lock Held	1	Yes	more
V1722 — Driver Recliner Mechanism Held	1	Yes	more
V1723 — Passenger Recliner Mechanism Held	1	Yes	more
V1724 — Driver Head Restraint Type	2	Integral	more
V1725 — Passenger Head Restraint Type	2	Integral	more
V1726 — Driver Head Rest Removed	8	Not applicable	more
V1727 — Passenger Head Rest Removed	8	Not applicable	more
V1728 — Driver Head Rest Adjustment	8	Not applicable	more
V1729 — Passenger Head Rest Adjustment	8	Not applicable	more
V1730 — Driver Head Rest Damage	0	None	more
V1731 — Passenger Head Rest Damage	0	None	more
V1732 — Driver Seat Adjustment Type	1	Manual	more
V1733 — Passenger Seat Adjustment Type	0	None (rigid)	more
V1734 — Driver Seat Adjustment Provided	1	2-way	more
V1735 — Passenger Seat Adjustment Provided	8	Not applicable	more
V1736 — Driver Seat Adjuster Damage	2	Deformed (released/jammed)	more
V1737 — Passenger Seat Adjuster Damage	8	Not applicable	more
V1738 — Driver Seat Adjuster Separation	0	None	more
V1739 — Passenger Seat Adjuster Separation	8	Not applicable	more
V1740 — Driver Seat Pre-crash Position	3	Rearward	more

V1741 — Passenger Seat Pre-crash Position	8	Not applicable	more
V1742 — Left Rear Seat Type	2	Folding	more
V1743 — Right Rear Seat Type	2	Folding	more
V1744 — Left Rear Seat Damaged	0	None	more
V1745 — Right Rear Seat Damaged	0	None	more
V1746 — Center Rear Armrest Damaged	8	Not applicable (No Center Armrest)	more
V1747 — Left Rear Seat-back Left Lock Equipped	1	Yes	<u>more</u>
V1748 — Right Rear Seat-back Left Lock Equipped	0	No	more
V1749 — Left Rear Seat-back Left Lock Held	1	Yes	more
V1750 — Right Rear Seat-back Left Lock Held	8	Not applicable	more
V1751 — Left Rear Seat-back Right Lock Equipped	0	No	more
V1752 — Right Rear Seat-back Right Lock Equipped	1	Yes	more
V1753 — Left Rear Seat-back Right Lock Held	8	Not applicable	more
V1754 — Right Rear Seat-back Right Lock Held	1	Yes	more
V1755 — Left 3rd Seat Equipped	1	Yes	more
V1756 — Right 3rd Seat Equipped	1	Yes	more
V1757 — Left 3rd Seat Backrest Damaged	0	No	more
V1758 — Right 3rd Seat Backrest Damaged	0	No	more
V1759 — Left 3rd Seat Cushion Damaged	0	No	more
V1760 — Right 3rd Seat Cushion Damaged	0	No	more
V1761 — Rear Head Restraints	1	Equipped	more



WINDSHIELD MARK ON CASE VEHICLE:





Windshield cracked on left due to upper left A-pillar and roof deformation, cracked on right due to passenger airbag deployment

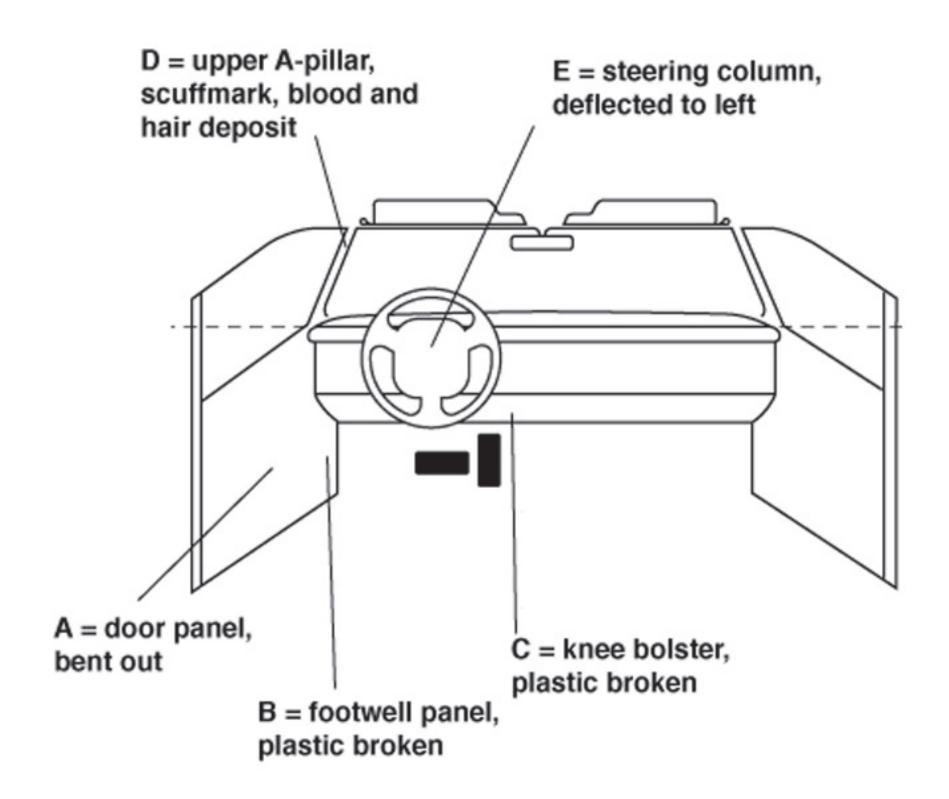
1 = Definitely 2 = Probably 3 = Possible

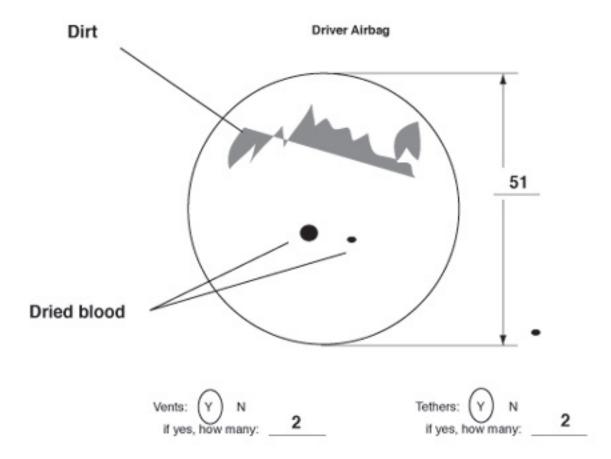
INTRUSION IT-1

		(All Me	(All Measurements Are in Centimeters)				Dominant
Location of Intrusion	Intruded Component	Comparison Value	_	Intruded Value	=	Intrusion	Crush Direction
11	Toepan	128	_	118	=	10	rear
11	Floor		_		=	5	up
11	Footwell panel	51	_	48	=	3	right
			_		=		
			-		=		
			_		=		
			_		=		
			_		_ = _		

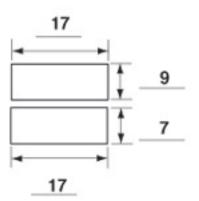
OCCUPANT CONTACT WORKSHEET

		_			Confidence
	Interior	Occupant	Body		Level of
	Component	No. if	Region		Contact
Contact	Contacted	Known	if Known	Supporting Physical Evidence	Point
Α	door panel	Dr	Lt. side	bent out	1
В	footwell	Dr	Lt. foot/ankle	plastic broken	1
	panel				
С	knee bolster	Dr	Rt. LX	plastic broken	1
D	upper A-	Dr	head	scuffmark, blood and hair deposit	1
D	pillar			·	
Е	steering	Dr	Unknown	deflected to left	1
L	column				
F					
G					
Н					
I					
J					
K					

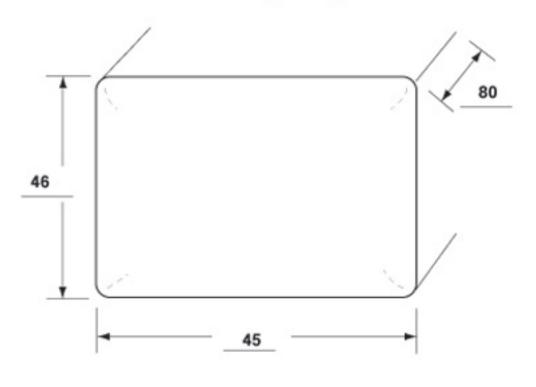




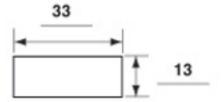
Driver Airbag Doors



Passenger Airbag



Passenger Airbag Door



Vents: Y (N)
if yes, how many: _____

Tethers: Y N
if yes, how many: _____

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	01	Injury #1	more
V2102 — 1st Prob Contact Area	14	A-pillar	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	08	Head/skull	more
V2105 — Primary OIC -aspect	01	Anterior/front	more
V2106 — Primary OIC -lesion	03	Contusion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	HACI1	_	
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	_	_	

Variable Number and Name	Code Value	Code Description	Other Options	
V2101 — Injury Number	02	Injury #2	more	
V2102 — 1st Prob Contact Area	87	Air cushion skin "airbag"	more	
V2103 — 2nd Prob Contact Area	38	Other (e.g. fire)	more	
V2104 — Primary OIC -body Region	06	Face	more	
V2105 — Primary OIC -aspect	18	Right	more	
V2106 — Primary OIC -lesion	03	Contusion	more	
V2107 — Primary OIC -system/Organ	09	Integumentary	more	
V2108 — Primary OIC -severity	1	Minor	more	
V2109 — Primary OIC	FRCI1	_	_	
V2110 — Assoc OIC 1 -body Region	99	No injury	more	
V2111 — Assoc OIC 1 -aspect	99	No injury	more	
V2112 — Assoc OIC 1 -lesion	99	No injury	more	
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more	
V2114 — Assoc OIC 1 -severity	9	Unknown	more	
V2115 — Assoc OIC 1	_	_	_	

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	03	Injury #3	more
V2102 — 1st Prob Contact Area	87	Air cushion skin "airbag"	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	06	Face	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	03	Contusion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	FRCI1	_	_
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	_		

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	04	Injury #4	more
V2102 — 1st Prob Contact Area	99	Unknown area of contact	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	19	Shoulder	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	20	Strain	more
V2107 — Primary OIC -system/Organ	13	Muscles	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	SLTM1	_	_
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	_	_	_

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	05	Injury #5	more
V2102 — 1st Prob Contact Area	40	Floor	more
V2103 — 2nd Prob Contact Area	91	Kickpanel	more
V2104 — Primary OIC -body Region	17	Ankle/foot	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	26	Fracture with dislocation	more
V2107 — Primary OIC -system/Organ	10	Joints	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	QLZJ2	_	_
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	_	_	

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	06	Injury #6	more
V2102 — 1st Prob Contact Area	40	Floor	more
V2103 — 2nd Prob Contact Area	91	Kickpanel	more
V2104 — Primary OIC -body Region	17	Ankle/foot	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	18	Rupture	more
V2107 — Primary OIC -system/Organ	10	Joints	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	QLRJ2	_	
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	_	_	_

Case # 364: Occupant # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2001 — Occupant Number	01	Occupant #1	more
V2002 — Occupant Role At 1st Impact	1	Motor vehicle driver	more
V2003 — Occupant Position -row	1	1st row	more
V2004 — Occupant Position -lateral	1	Left	more
V2005 — Occupant Position -posture	10	Sitting on seat	more
V2006 — Occupant Age In Years	44	<u> </u>	_
V2007 — Occupant Age In Months	25	25 months or older	more
V2008 — Occupant Mass	113 kg	<u> </u>	_
V2009 — Occupant Height	180 cm	<u> </u>	_
V2010 — Occupant Sex	2	Female	more
V2011 — Occupant Treatment/Mortality	04	Hospitalized over 24 hrs or for significant treatment	more
V2012 — Injury Severity Score	05	ISS 5	more
V2013 — Non-impact Med Condition	0	None	more
V2014 — Police Injury Severity	2	B - Non-incapacitating Injury	more
V2015 — Active Restraint System	3	Both lap belt and shoulder harness	more
V2016 — Active Restraint Usage	0	None (available but not used)	more
V2017 — Passive Restraint System	1	Air bag installed	more
V2018 — Passive Restraint Usage	2	Air bag deployed	more
V2019 — Child Seat Type	88	Not applicable (adult or older child)	more
V2020 — Occupant Ejection Degree	0	None	more
V2021 — Occupant Ejection Area	98	Not applicable (not ejected)	more
V2022 — Highest OIC Severity	2	Moderate	more

V2023 — Head Restraint Available	1	Equipped	more
V2024 — Occupant Eyewear	1	Glasses	more
V2025 — Source of Occupant Info	7	Combination of above	more















